WSA2B
Dual Band Walking Stick Antenna

- **Same antenna used by Search and Rescue teams!**
- **Tuned for both 2 Meters and 70 Centimeters**
- **Lightweight and durable for years of use**
- **Heavy duty fiberglass and aluminum construction**
- **Weather resistant**
- **Reversible tip for different walking conditions: Rubber tip for indoor use and rugged pointed tip for outdoor hiking**

SPECIFICATIONS

- **Frequency: 144-148 / 444-448 MHz**
- **Gain: 2.1dBi**
- **VSWR: Less than 1.5:1**
- **Max Power: 10 Watts**
- **Length: 52 1/4"**
- **Weight: 1.5 Lbs**

Welcome to the Walking Stick Antenna, the lightweight, durable answer to your outdoor, out-of range transmit/receive problems. While you won't need the Walking Stick Antenna in all situations it is advisable to keep it on hand for those times when you need improved radio transmission or reception. If you're using the antenna supplied with your hand-held and your reception is noisy or weak, connect the Walking Stick as follows.

First, remove the antenna from your radio and place it in the storage area provided on the Walking Stick. Simply remove the gray end cap to access the storage section under the handle grip. Then connect your coax patch cord to your radio's antenna connector where you just removed the radio's antenna. Next, remove the dust cap from the Walking Stick to expose the BNC connector. Let the dust cap hang from its chain. You can now connect the loose end of the coax cable to the Walking Stick antenna at the BNC connection. With the radio and antenna connected together you're now ready to transmit and receive with your Walking Stick.

There are two different tips for your Walking Stick: A pointed aluminum tip for outdoor use and a rubber tip for indoor use. To change tips simply remove the screw on the side of the antenna near the tip, slide the tip out, reverse it and slide it back in place. You'll note two screw holes at different heights that hold the tip in place. Use the one that fits best. Remember to tighten the screw.

When you're finished using the Walking Stick remember to replace the dust cap on the BNC connector to prevent damage to the connector and to keep dust and moisture out.

If you find that your transmission and reception has not improved with the radio connected to the Walking Stick when it is on the ground, try holding it by the handle and pointing the tip up above your head. **NOTE:** Be sure there are no low hanging objects that may be damaged by or cause damage to your Walking Stick (or you!) before holding it up in the air. Low lying electrical lines are a good thing to avoid! Also, it is not advisable to hold the antenna up in the air during a thunderstorm or at any time when lightning is a threat. Be aware that some animals such as horses may be spooked by you swinging your antenna around in the air so use caution and good sense!

If you are still hearing static you should try different positions for the antenna while you're holding it up in the air. Try different angles, distances from your body and turn around a central point until you get optimal reception. Don't forget that FM is line-of-sight and buildings, towers and other objects can degrade your signal. Move several feet away from possible sources of interference.

You may find that when you have the Walking Stick attached you can transmit on low power rather than high power, thus giving you longer battery life.

Troubleshooting:

If you have a problem with reception or transmission, try these steps first.

1. Check to be sure your radio works with its supplied antenna or any other antenna. Be sure it is turned on and the battery has enough charge to function properly. Also check the volume and squelch con-

trol and make sure you're on the correct channel. Refer to your owners manual for proper use of your radio.
2. Check your BNC's for dirt or other debris that could be keeping them from making good contact. Heavy use can wear out BNC connectors so check the center on the connector.
3. Check your coax cable connection. Be sure you're connected to the antenna jack on your radio and the other end of the cable is properly connected to the Walking Stick. Look at the center conductor to be sure it can make contact and is not worn or broken. If everything looks correct, be sure your cable is good by trying it on another radio or connecting a known good cable. BNC cables can wear out. RG-58 A/U cable is recommended.
4. Remember that the station you're trying to contact may be more powerful than you are. You may be able to hear them when they can't hear you at all. Try a different location; higher ground can help.

Precautions:

- **Don't** transmit more than 10 watts into your Walking Stick.
- **Don't** lean on your BNC connector.
- **Don't** use your Walking Stick as a tool for prying, lifting, hammering, etc.
- **Don't** submerge the antenna.
- **Don't** use your Walking Stick when lightning is a threat.
- **Don't** leave the antenna in direct sunlight for long periods.
- **Don't** use the antenna on any frequencies other than Two Meters.
- **Don't** drag the Walking Stick by the coax cable.
- **Don't** use any other than 50 ohm coax.
- **Don't** use acetone or other solvents to clean the Walking Stick antenna.

And lastly **Do** replace the dust cap on the BNC connector when not in use.

Your Walking Stick can be cleaned best with soap and water and can be recoated with high tech car wax, epoxy or polyurethane if needed. (Always clean the antenna before recoating!) Replace the dust cap as soon as possible if it is lost. With a little maintenance your Walking Stick antenna will provide you with years of good service.

WARRANTY INFORMATION

RAMSEY ELECTRONICS WARRANTY APPLIES TO ORIGINAL PURCHASERS ONLY

ALL FACTORY ASSEMBLED PRODUCTS ARE WARRANTIED TO BE FREE FROM DEFECTS IN PARTS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ORIGINAL PURCHASE. PROOF OF PURCHASE MUST ACCOMPANY THE UNIT. THIS WARRANTY APPLIES TO UNITS THAT HAVE NOT BEEN MODIFIED, MISUSED, ABUSED, OR REPAIRED BY UNAUTHORIZED PERSONNEL.

PLEASE INCLUDE A DESCRIPTION OF THE PROBLEM AND A LEGIBLE RETURN ADDRESS. RETURN SHIPPING AND INSURANCE REMITTANCE OF $3.00 IS REQUIRED. ENCLOSE ALL CORRESPONDENCE WITH THE UNIT.

TIME INVOLVED FOR REPAIR DEPENDS ON THE PRODUCT. IT TYPICALLY RUNS ONE TO TWO WEEKS AFTER FACTORY RECEIPT.

RAMSEY ELECTRONICS, INC. RESERVES THE RIGHT TO REFUSE REPAIR ON ANY ITEM.

Any problems or questions? Call Ramsey at (585) 924-4560.

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